

## Algebra 2

Exponents Day 32: Graphing Exponential Decay Functions

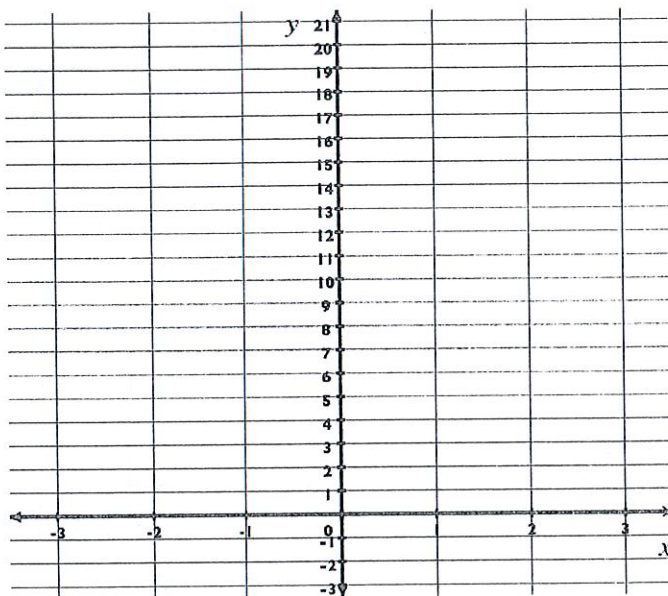
## Spot the Decay!

**Directions:** Circle each function that is an example of **exponential decay** (there are exactly **five** of them). Graph each of these decay functions only.

$f(x) = 2(4)^{-x}$	$f(x) = 3(5)^x$	$f(x) = 6\left(\frac{2}{3}\right)^x$	$f(x) = 5\left(\frac{3}{2}\right)^x$
$f(x) = 9^{-x}$	$f(x) = \left(\frac{7}{2}\right)^{-x}$	$f(x) = 2\left(\frac{1}{4}\right)^{-x}$	$f(x) = 5\left(\frac{1}{3}\right)^x$

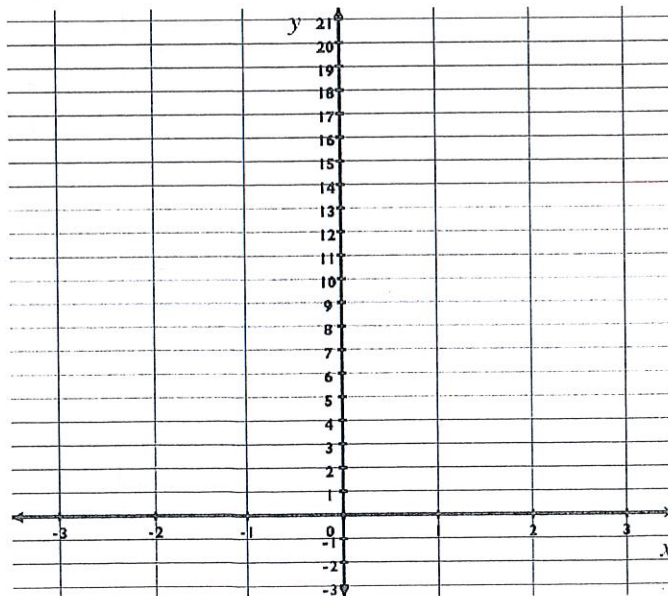
1)

x	y
-2	
-1	
0	
1	
2	



2)

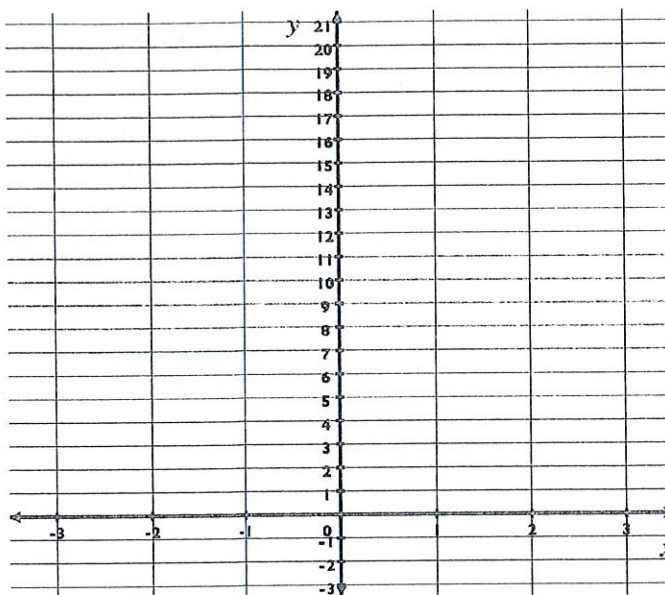
x	y
-2	
-1	
0	
1	
2	



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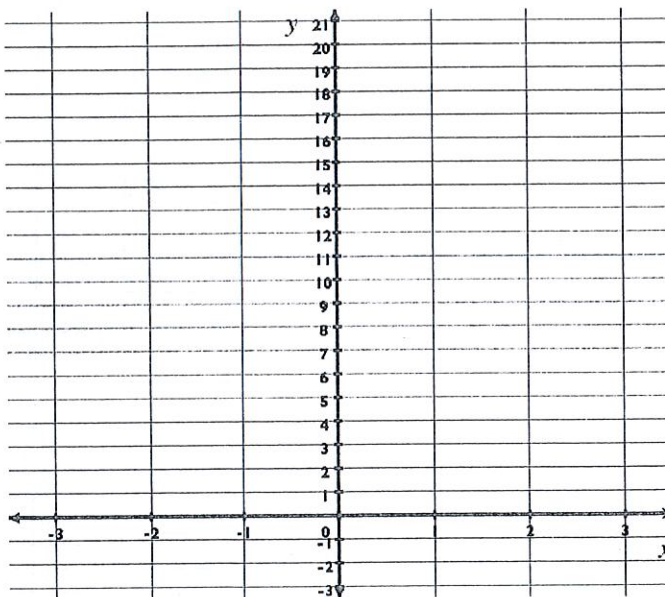
3)

x	y
-2	
-1	
0	
1	
2	



4)

x	y
-2	
-1	
0	
1	
2	



5)

x	y
-2	
-1	
0	
1	
2	

